Profectis
Technischer Kundendienst
QUELLE.

Serviceunterlage

Produkt-Nr.:
838.405-9
Typ/Privileg-Nr.:
DVD-DR 3015

DVD-PLAYER

UTS-Nr.: 999 QUELLE
Best.Nr.: 8384059/01
Ger.Bez.: DVD-PLAYER

GKz: G GERAET
WGT: 643 CD-VIDEO
KD-Sektor: S SONDERGERAETE
BaumNr.: 00 KEIN DIAGNOSEBAUM VORHANDEN
Klassierung: VCR VIDEO-RECORDER
IFW-FehlerGru.: 000 KEINER GRUPPE ZUORDENBAR
Type/Privileg/Universum.Nr DVD DR 3015
Beschreibung SIEHE AUCH NAN: 721/255
VK-Preis: 1299.00

Serviceart: 1
Garantie fuer Kunden 12 Monate
Sondervereinbarungen: 0 SIEHE SERVICEART

Garantiereparatur 0004063 PROFECTIS GMBH
Sondervereinbarungen: 0 SIEHE SERVICEART

Katalog		Seite
Erst	014 HAUPTKATALOG H/W 2001	0000
Letzt	000 NOCH IM AKTUELLEN KATALOG	1566

Geraete Info:

ACHTUNG:
BEI REPARATUREN AM SUBWOOFER MUSS, UM BESCHAEDIGUNGEN ZU VERMEIDEN, IMMER ERST DER LAUTSPRECHER AUSGEBAUT WERDEN!! RUECKSEITEN-GITTER ABZIEHEN, LS AUSBAUEN (4 SCHRAUBEN), DANN KABELBINDER DER NETZTRAFOLEITUNG LOESEN (4 STUECK). JETZT KANN OBERE BLENDE (10 SCHRAUBEN) ABGEBAUT WERDEN.

ACHTUNG:
AN MPEG-PLATINE UND DVD-LAUFWERK SIND KEINE REPARATURVERSUCHE VORZUNEHMEN. DIESE TEILE DUERFEN NUR ALS EINHEITEN GETAUSCHT WERDEN UND SIND MIT FEHLERANGABE (!!!) RUECKSENDEPFLICHTIG.

Safety Precaution.....1
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Schematic Diagram.....17

SAFETY PRECAUTIONS

1. SAFETY PRECAUTIONS

Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:

a. Be sure that no built-in protective devices are defective and/or have been defeated during servicing.

(1) Protective shields are provided to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience.

(2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning.

b. Be sure that there is no cabinet opening through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to , excessively wide cabinet ventilation slots and an improperly fitted and/or incorrectly secured cabinet back cover.

2. PRODUCT SAFETY NOTICE

Some electrical and mechanical parts have parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, ect. Parts that have special safety characteristics are identified by shading, by a (x) or (⚠) on the schematics and parts list. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. Product Safety is under review continually and new instructions are issued whenever appropriate.

3. SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service manual and its supplements, read and follow the SAFETY PRECAUTIONS on this page.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

a. Always unplug the instrument AC power cord from the AC power source before:

(1) Removing or reinstalling any component, circuit board, module, or any other instrument assembly.

(2) Disconnecting or reconnecting any instrument electrical plug or other electrical connection.

(3) Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

Caution: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

b. Do not defeat any plug/socked B+ voltage interlocks with which instruments covered by this service manual might be equipped.

c. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solidstate device heat sinks are correctly installed.

d. Always connect a test instruments ground lead to the instrument chassis ground before connecting the test instrument ground lead last.

SPECIFICATIONS

DVD Player

• Pickup	Semiconductor laser, Wavelength 650 nm
• Signal system	NTSC / PAL
• Video signal horizontal resolution	More than 480 lines (DVD)
• Video signal-to-noise ratio	More than 60 dB (DVD)
• Audio frequency response (at 2 CH stereo mode)	DVD (PCM): 2 Hz ~ 22 kHz (+/- 1.0 dB) CD: 2 Hz ~ 20 kHz (+/- 1.0 dB)
• Audio signal-to-noise ratio	More than 80 dB
• Total harmonic distortion	Less than 0.01%
• Dynamic range	DVD (PCM): More than 85 dB (EIAJ, 2kHz, -60 dBFS) CD: More than 85 dB (EIAJ)

FM Tuner

• System	PLL quartz-locked digital synthesizer system
• Tuning range	87.50 ~ 108.00 MHz (50 kHz step)
• Antenna	FM pigtail antenna
• Antenna terminals	75 ohms, unbalanced
• Intermediate frequency	10.7 MHz

AM Tuner

• System	PLL quartz-locked digital synthesizer system
• Tuning range	522~1620 kHz (9 kHz interval)
• Antenna	AM Loop antenna

Video outputs

• CVBS Video	1 Vp-p 75 ohms
• S-video	Y: 1 Vp-p 75 ohms C: PAL 0.3 Vp-p 75 ohms / NTSC 0.286 Vp-p 75 ohms
• Scart out	1 Vp-p 75 ohms
• Optical & Coaxial out	1 Vp-p 75 ohms

Audio line outputs

• Audio L/R	2 Vrms, 1 kilohms
• Subwoofer	5 Vrms maximum (adjustable), 1 kilohms

Audio power outputs

• Stereo mode	20 W + 20 W (4 ohms at 1 kHz, THD 10%)
• Surround mode	Front: 20 W + 20 W (4 ohms at 1 kHz, THD 10%) Center: 20 W (4 ohms at 1 kHz, THD 10%) Rear: 20 W + 20 W (4 ohms at 1 kHz, THD 10%)
• Phones	Headphones jack(stereo 6.35mm)

General

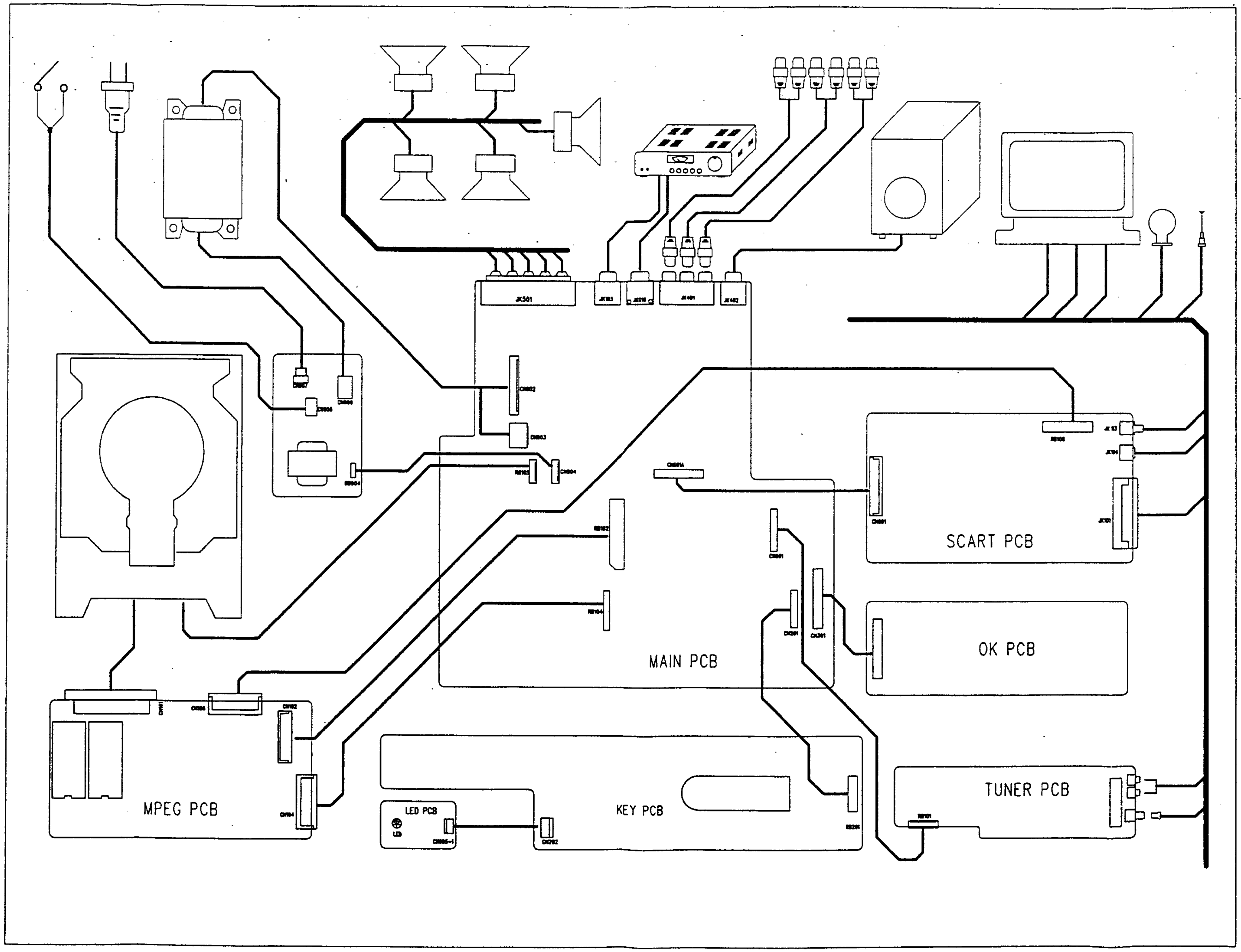
• Power requirements	AC 230 V, 50 Hz
• Power consumption	200 W
• Dimensions (main unit)	W 430x H78x D378 mm
• Weight	8.2 kg

SPECIFICATIONS

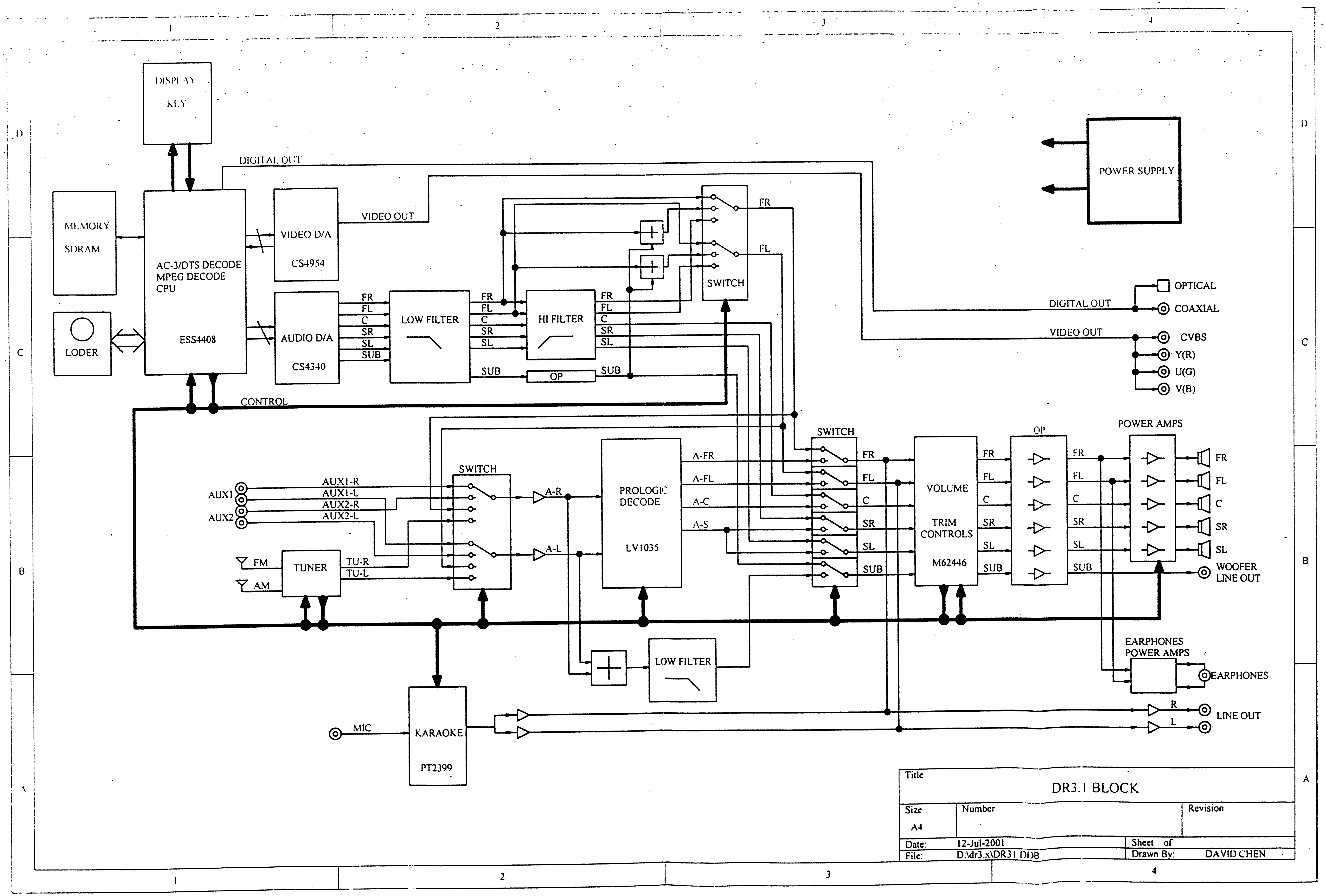
Speakers

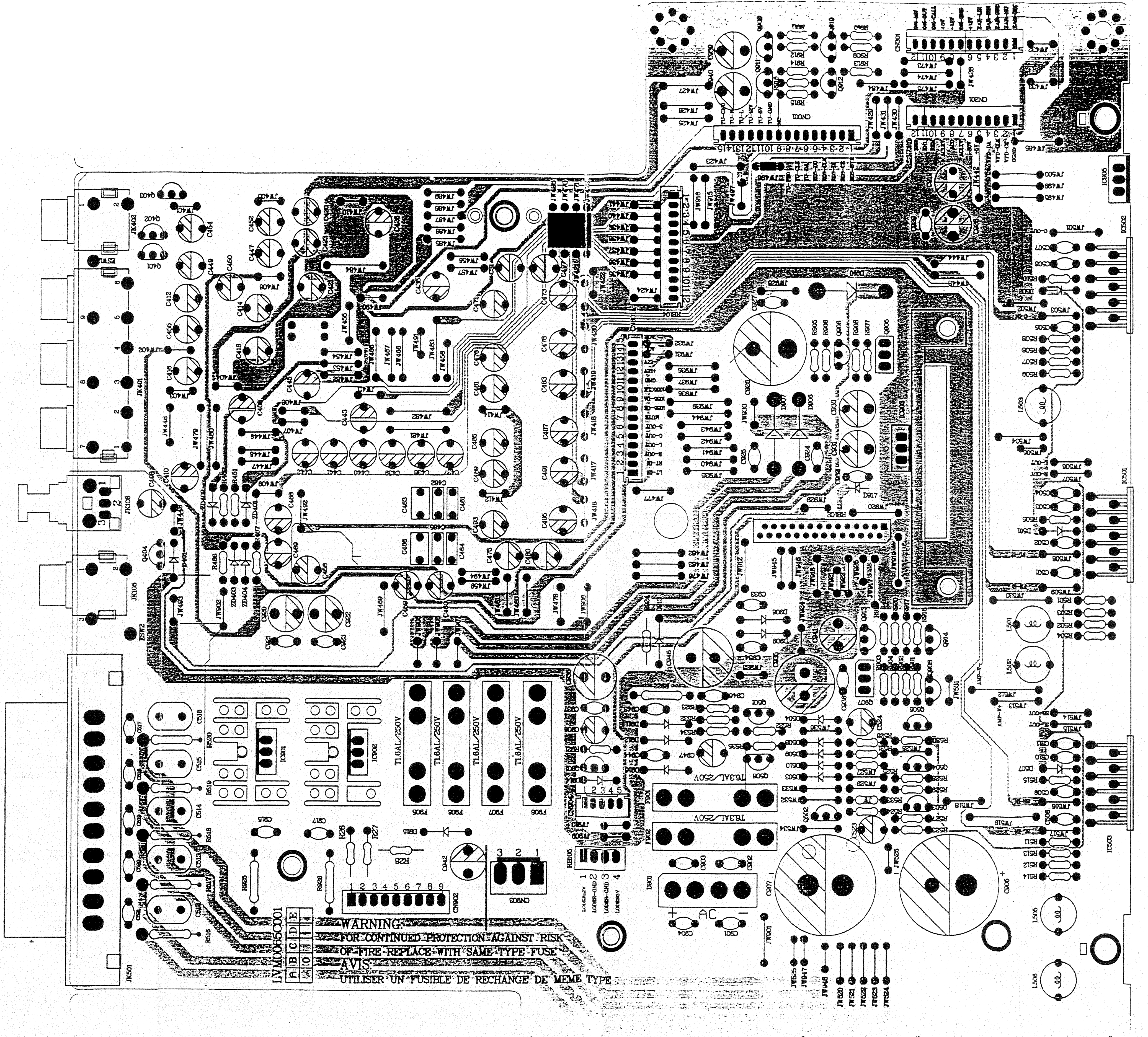
• Active Subwoofer	Output power : 75 W (4 ohms at 80Hz, THD 10%) Speaker system : Bass reflex Power reguirements : AC 230 V, 50 Hz Power consumption : 50 W Speaker unit : 8 inches, dia, cone type Rated impedance : 4 ohms Dimensions : W200x H333x D328 mm Weight : 7.1 kg
• Front / Center / Rear speakers	Power: 25 W maximum Speaker system: Bass reflex Speaker unit: 2 $^{7}/_{8}$ inches,dia,cone type Rated impedance: 4 ohms Dimensions: W90x H150x D110 mm Weight: 0.5 kg

Design and specifications are subjected to change without notice.
Weight and dimensions are approximate.

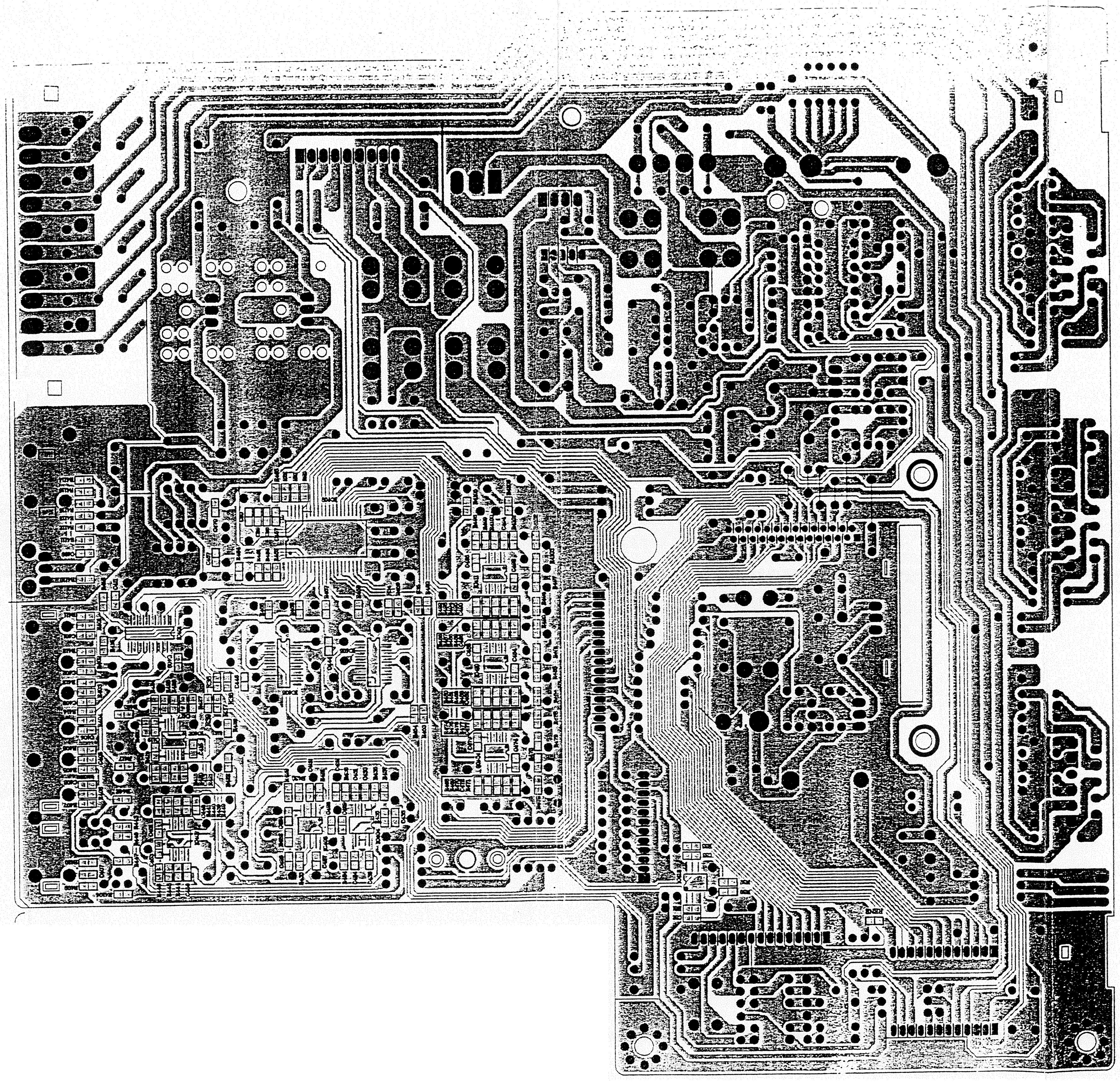

JK501
SCART PCB
OK PCB
MAIN PCB
TUNER PCB
MPEG PCB
KEY PCB
LED PCB

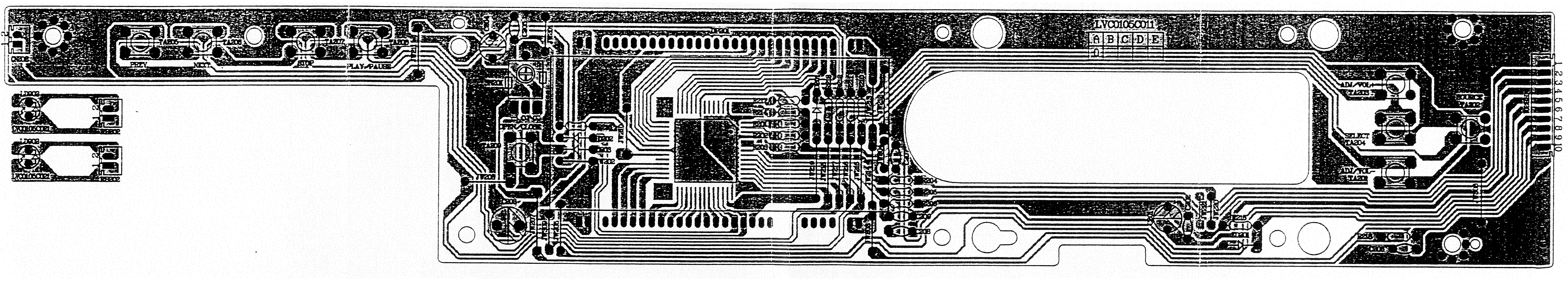
BLOCK DIAGRAM

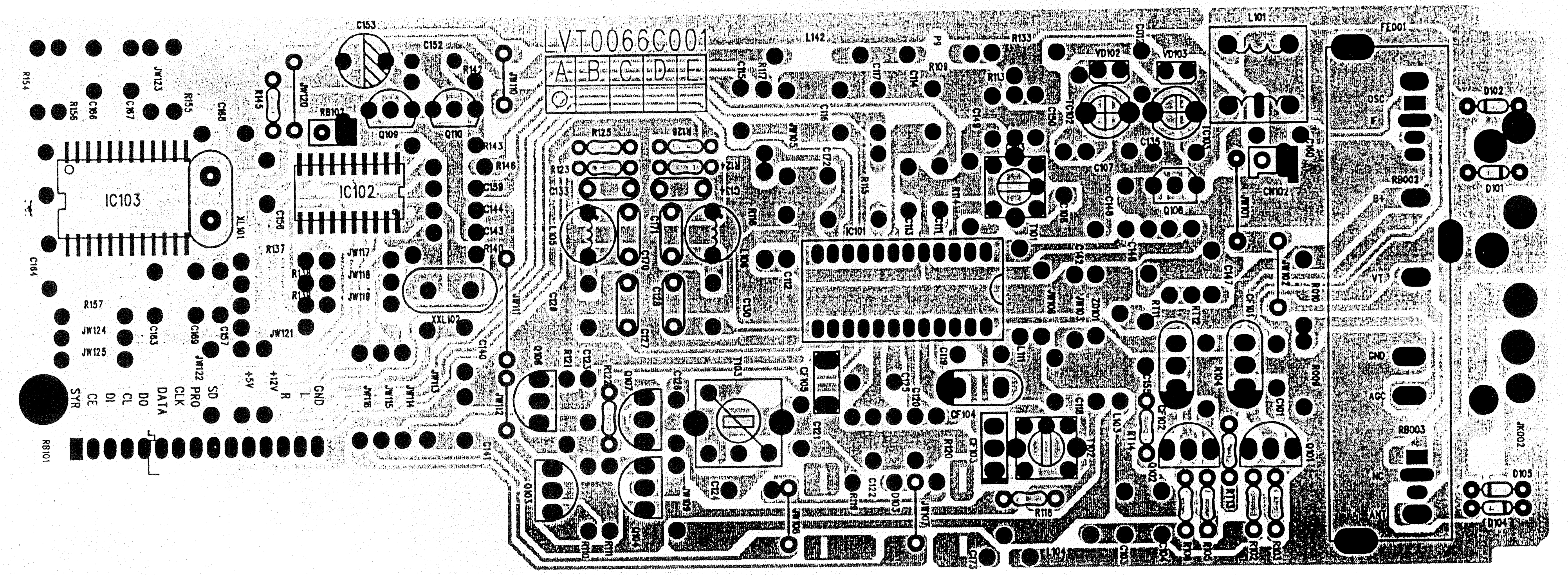

DISPLAY
KEY
MEMORY
SDRAM
LODER
AC-3/DTS DECODE
MPEG DECODE
CPU
ESS4408
DIGITAL OUT
VIDEO D/A
CS4954
VIDEO OUT
AUDIO D/A
CS4340
FR
FL
C
SR
SL
SUB
LOW FILTER
HI FILTER
OP
SWITCH
CONTROL
POWER SUPPLY
OPTICAL
COAXIAL
CVBS
Y(R)
U(G)
V(B)
AUX1
AUX2
AUX1-R
AUX1-L
AUX2-R
AUX2-L
FM
AM
TUNER
TU-R
TU-L
A-R
A-L
PROLOGIC
DECODE
LV1035
A-FR
A-FL
A-C
A-S
VOLUME
TRIM
CONTROLS
M62446
POWER AMPS
WOOFER
LINE OUT
EARPHONES
POWER AMPS
EARPHONES
MIC
KARAOKE
PT2399
R
L
LINE OUT
1
2
3
4
A
B
C
D
Title
DR3.1 BLOCK
Size
A4
Number
Revision
Date:
12-Jul-2001
File:
D:\dr3.x\DR31.DDB
Sheet of
Drawn By:
DAVID CHEN


WARNING:
FOR CONTINUED PROTECTION AGAINST RISK
OF FIRE REPLACE WITH SAME TYPE FUSE
AVIS:
UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE
LVM0065C001
A
B
C
D
E
T1.6AL/250V
T1.6AL/250V
T1.6AL/250V
T1.6AL/250V
T6.3AL/250V
T6.3AL/250V
AC
CN902
CN903
JK501
JK401
JK402
JK106
JK108
IC901
IC902
IC501
IC502
IC503
IC505
CN301
CN201
CN901
F905
F906
F907
F908
F901
F902
D801

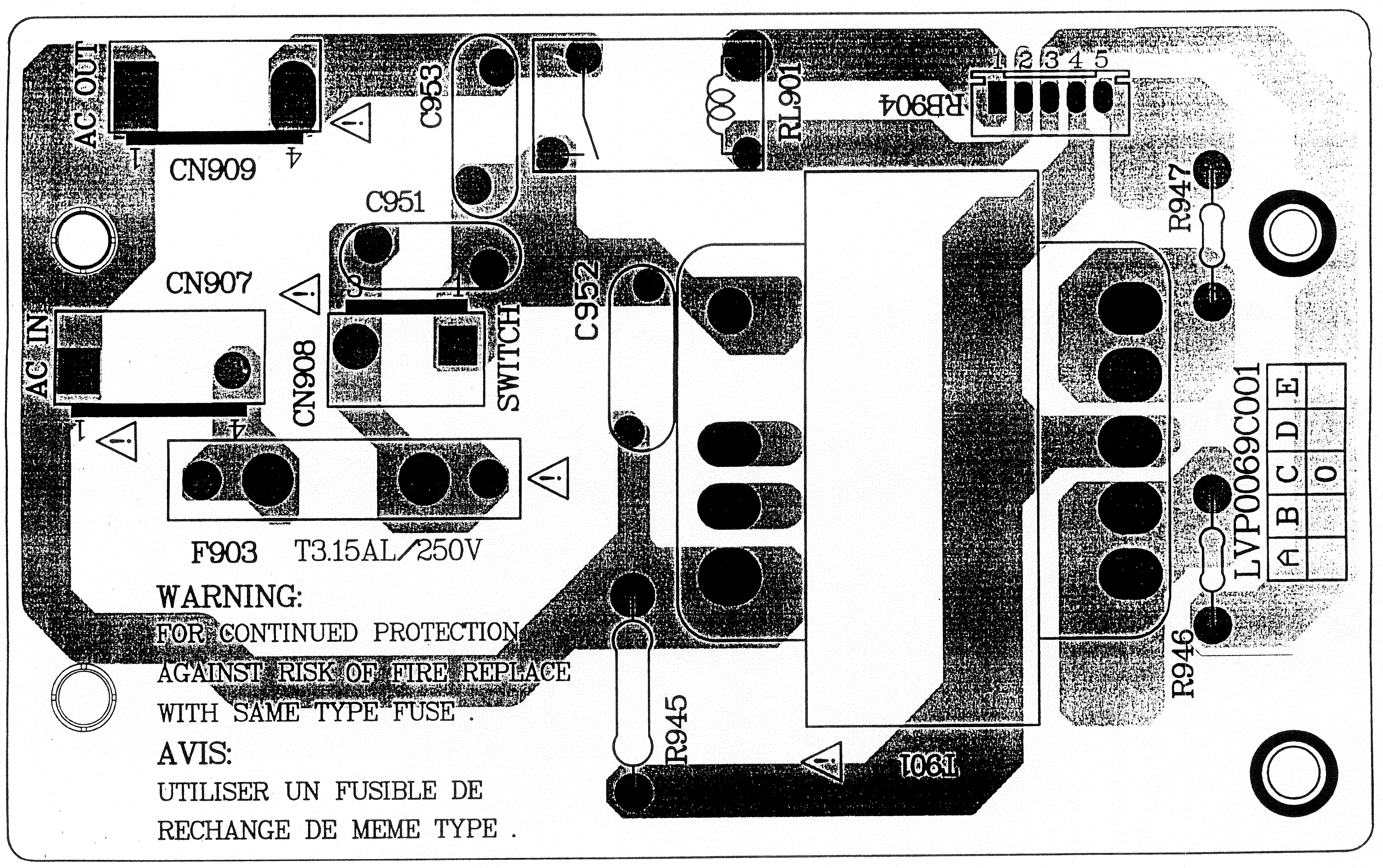
MAIN BLOCK DIAGRAM



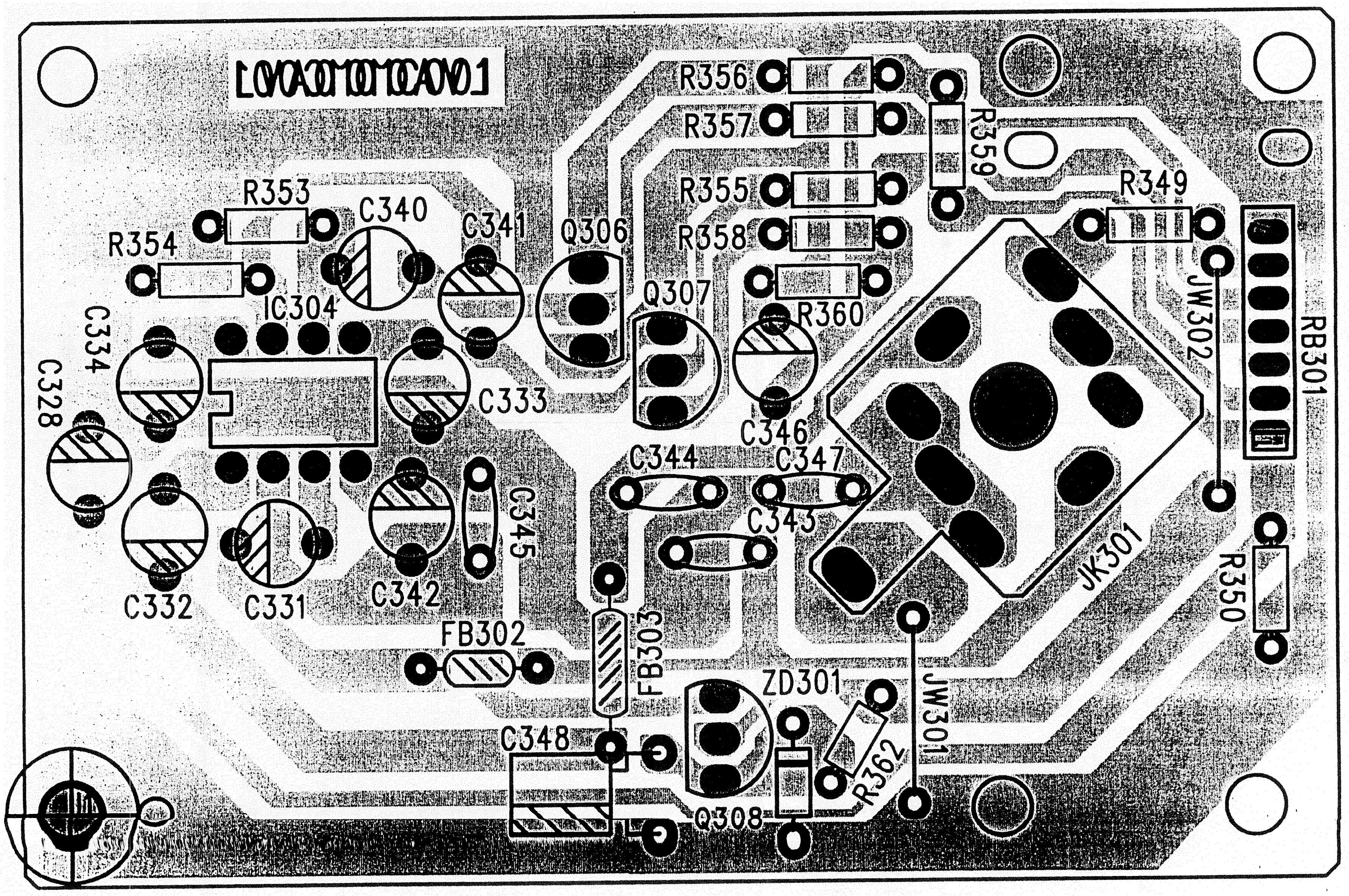

CN208
TA205
PREV
TA206
NEXT
TA207
STOP
TA208
PLAY/PAUSE
LD902
LVC0105C021
LD903
LVC0105C021
OPEN/CLOSE
TA200
JW206
DP201
LVC0105C011
A
B
C
D
E
ADJ/VOL+
TA203
SELECT
TA204
ADJ/VOL-
TA201
SOURCE
TA202
1
2
3
4
5
6
7
8
9
10


LVT0066C001
A
B
C
D
E
IC101
IC102
IC103
FE001
L101
L142
VD102
VD103
Q108
Q109
Q110
CN102
RB101
RB102
RB002
RB003
JK002
OSC
F
B+
VT
GND
AGC
NC
ANT
D101
D102
D104
D105
XL101
XXL102
C153
C152
R142
R145
JW120
JW121
JW123
JW124
JW125
JW117
JW118
JW119
R154
R155
R156
R157
C184
C168
R133
R109
P9
SYR
CE
DI
CL
DO
DATA
CLK
PRO
SD
+5V
+12V
R
L
GND

TUNER BLOCK DIAGRAM

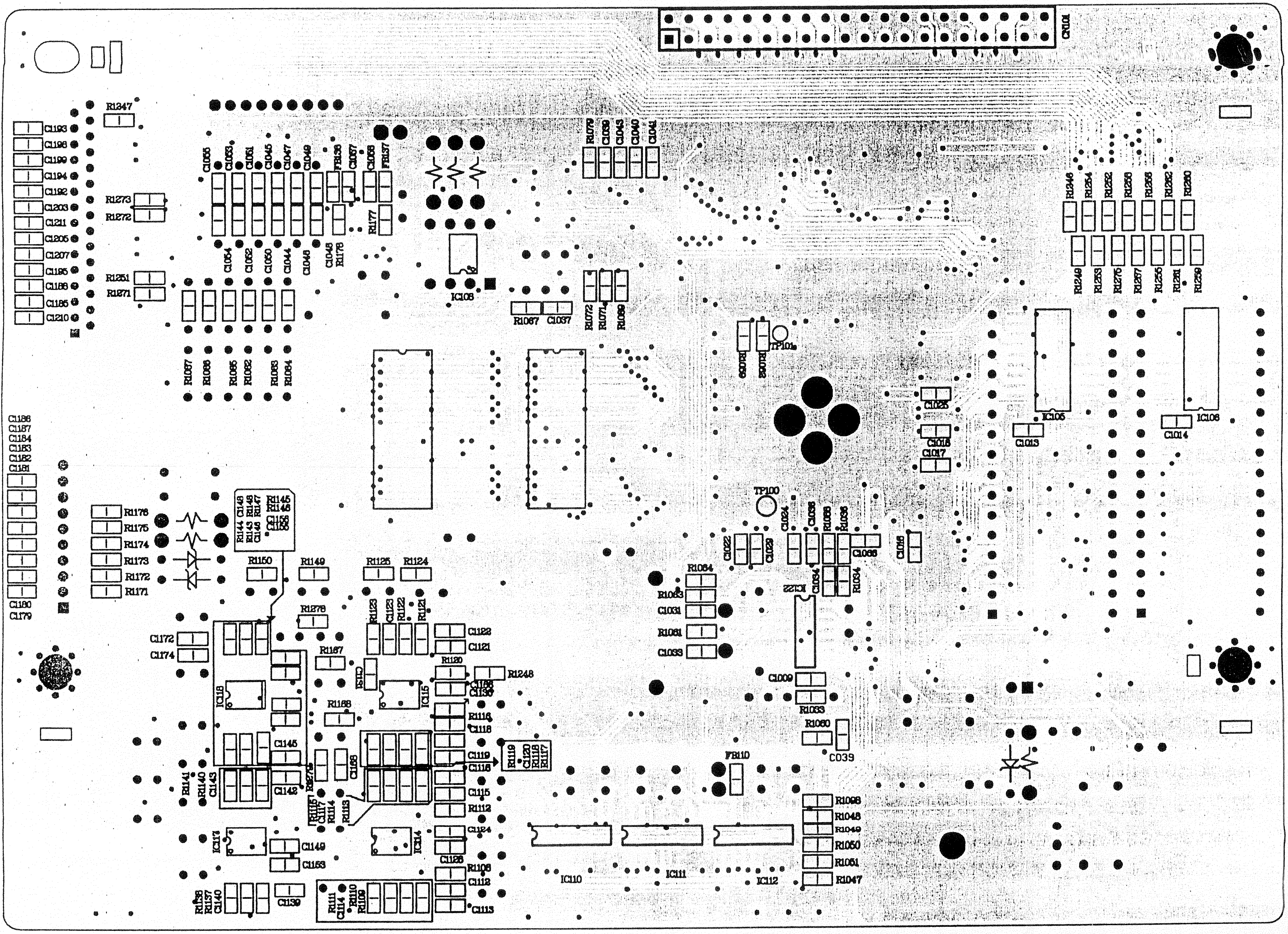

AC OUT
CN909
1
4
C953
RL901
RB904
1 2 3 4 5
C951
CN907
3
1
AC IN
CN908
SWITCH
C952
R947
LVP0069C001
A B C D E
0
R946
1
4
F903
T3.15AL/250V
WARNING:
FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE REPLACE
WITH SAME TYPE FUSE .
AVIS:
UTILISER UN FUSIBLE DE
RECHANGE DE MEME TYPE .
R945
T901

POWE BLOCK DIAGRAM

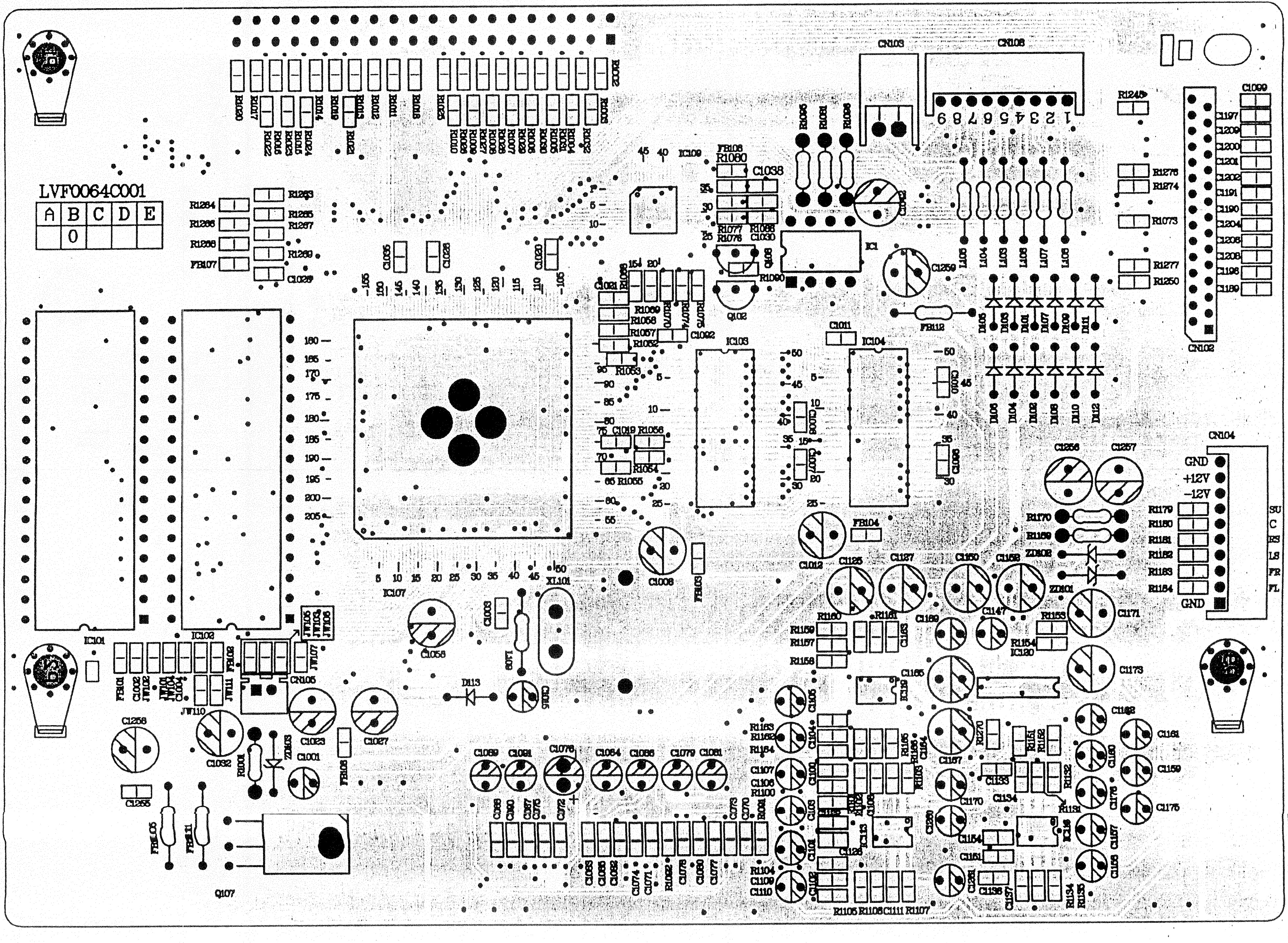

L0VA301001CA001
R356
R357
R359
R355
R358
R349
R360
R353
R354
C340
C341
Q306
Q307
IC304
C334
C328
C333
C346
C344
C347
C343
C345
JW302
RB301
JK301
R350
C332
C331
C342
FB302
FB303
ZD301
JW301
R362
C348
Q308

PHONE BLOCK DIAGRAM

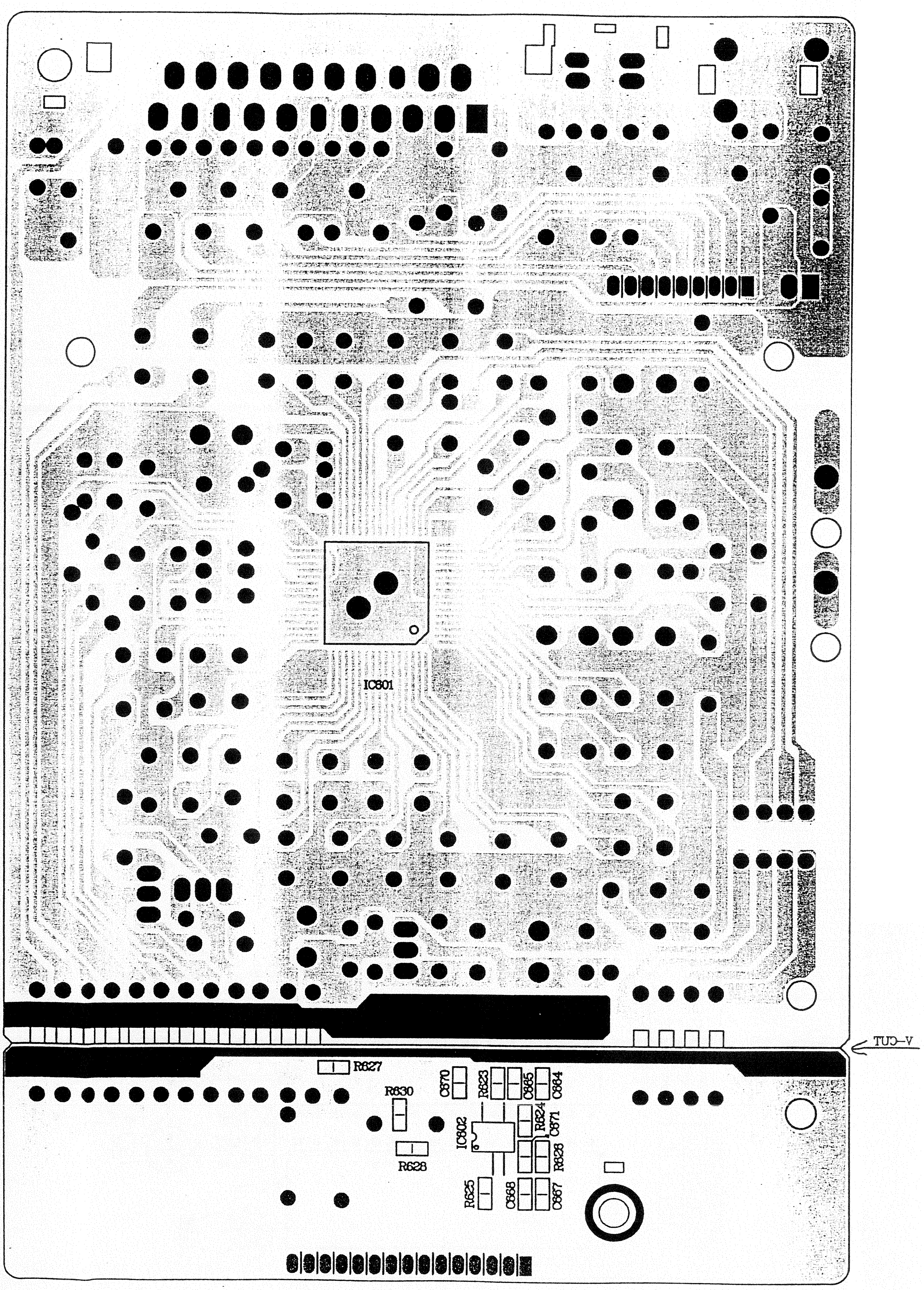
DECODER BLOCK DIAGRAM (BOTTOM)

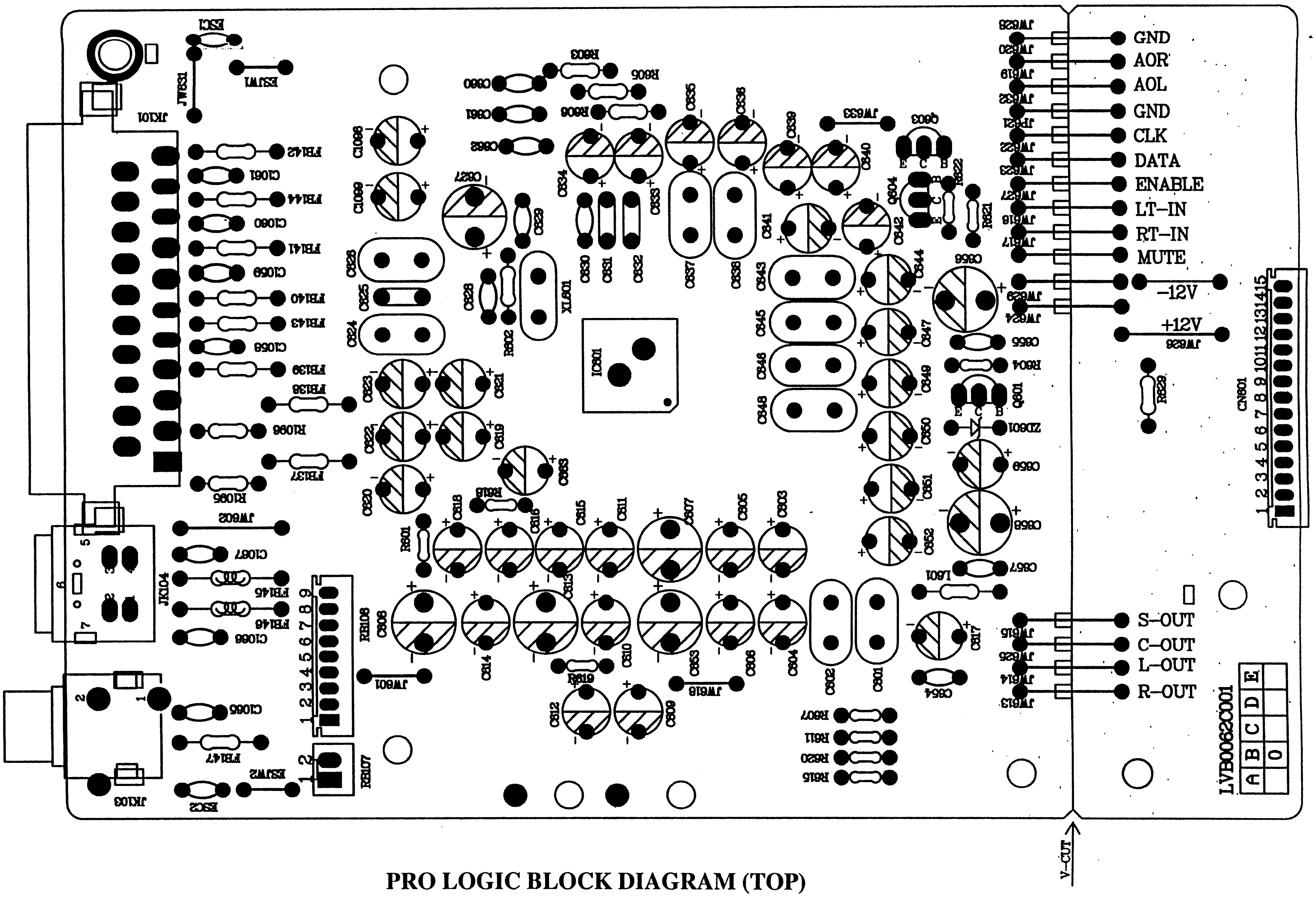

CN101
IC103
IC105
IC106
IC110
IC111
IC112
IC113
IC114
IC115
IC116
IC117
IC122
TP100
TP101
FB110
FB136
FB137
R1247
R1273
R1272
R1251
R1271
R1176
R1175
R1174
R1173
R1172
R1171
R1150
R1149
R1125
R1124
R1278
R1167
R1168
R1120
R1248
R1064
R1063
R1061
R1053
R1060
C039
R1098
R1048
R1049
R1050
R1051
R1047
C1193
C1196
C1199
C1194
C1192
C1203
C1211
C1205
C1207
C1195
C1186
C1185
C1210
C1179
C1180
C1172
C1174
C1145
C1142
C1149
C1153
C1139
C1122
C1121
C1126
C1113
C1009
C1031
C1033
C1013
C1014
C1025
C1017

DECODER BLOCK DIAGRAM (TOP)


LVF0064C001
A B C D E
0
CN103
CN108
CN102
CN104
CN105
IC101
IC102
IC103
IC104
IC107
IC1
Q102
Q107
X1101
GND
+12V
-12V
SU
C
ES
LS
FR
FL
GND

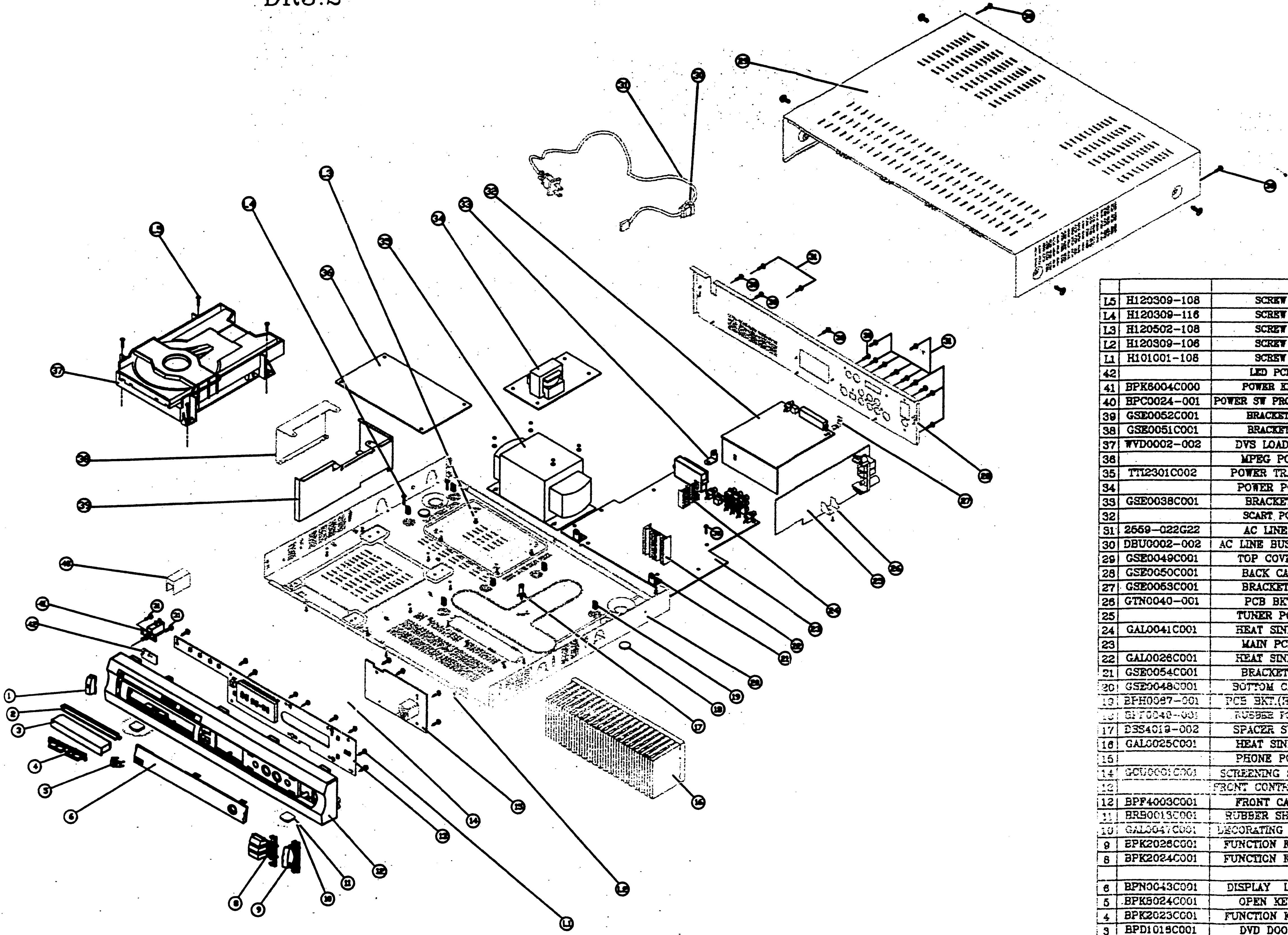
PRO LOGIC BLOCK DIAGRAM (BOTTOM)


IC801
R627
R630
C870
R623
C865
C864
R624
C871
IC802
R628
R626
R625
C868
C867
TUϽ-V


GND
AOR
AOL
GND
CLK
DATA
ENABLE
LT-IN
RT-IN
MUTE
-12V
+12V
CN601
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
S-OUT
C-OUT
L-OUT
R-OUT
LVB0062C001
A
B
C
D
E
0
V-CUT
IC601
XL601
Q601
Q604
E C B
JK104
RH106
RH107
R619
JW601
JW602
JW631

PRO LOGIC BLOCK DIAGRAM (TOP)

DR3.2



L5	H120309-108	SCREW	M3x8x0.5P	4	
L4	H120309-116	SCREW	M3x16x0.5P	6	
L3	H120502-108	SCREW	M3X0.5PX24	4	
L2	H120309-106	SCREW	M3x6x0.5P	34	
L1	H101001-108	SCREW	M3.0xP1.27-2RHxL8mm	31	
42		LED PCB	PCB T=1.6mm	1	
41	BPK6004C000	POWER KEY	ABS SPRAYING OIL	1	
40	BPC0024-001	POWER SW PROTECTOR	HIPS	1	
39	GSE0052C001	BRACKET2	SECC T=0.8mm	1	
38	GSE0051C001	BRACKET1	SECC T=0.8mm	1	
37	WVD0002-002	DVS LOADER		1	
36		MPEG PCB		1	
35	TTI2301C002	POWER TRANS		1	
34		POWER PCB	PCB T=1.6mm	1	
33	GSE0038C001	BRACKET	SECC T=0.8mm	1	
32		SCART PCB	PCB T=1.6mm	1	
31	2559-022G22	AC LINE		1	
30	DBU0002-002	AC LINE BUSHING	HIPS	1	
29	GSE0049C001	TOP COVER	SECC T=0.6mm	1	
28	GSE0050C001	BACK CAB	SECC T=0.8mm	1	
27	GSE0053C001	BRACKET3	SECC T=0.8mm	1	
26	GTN0040-001	PCB BKT	AM715D	1	
25		TUNER PCB	PCB T=1.6mm	1	
24	GAL0041C001	HEAT SINK3		2	
23		MAIN PCB	PCB T=1.6mm	1	
22	GAL0026C001	HEAT SINK2		1	
21	GSE0054C001	BRACKET4	SECC T=0.8mm	1	
20	GSE0048C001	BOTTOM CAB.	SECC T=1.0mm	1	
19	BPH0087-001	PCB BKT.(H8.5)	HIPS	5	
18	BFT0040-001	RUBBER FOOT		4	
17	DSS4019-002	SPACER SUP	OD=4.0 ID=1.9 L=18	1	
16	GAL0025C001	HEAT SINK1		1	
15		PHONE PCB		1	
14	GCU0001C001	SCREENING SHEET		1	
13		FRONT CONTROL PCB		1	
12	BPF4003C001	FRONT CAB.	HIPS SPRAYING OIL	1	
11	BRB0013C001	RUBBER SHEET		2	
10	GAL0047C001	DECORATING PART	CHROMED SILVER	1	
9	BPK2026C001	FUNCTION KEY3	ABS SPRAYING OIL	1	
8	BPK2024C001	FUNCTION KEY2	ABS SPRAYING OIL	1	
6	BPN0043C001	DISPLAY LENS	ACYLIC	1	
5	BPK6024C001	OPEN KEY	ABS SPRAYING OIL	1	
4	BPK2023C001	FUNCTION KEY1	ABS SPRAYING OIL	1	
3	BPD1016C001	DVD DOOR	HIPS SPRAYING OIL	1	
2	BPD1017C001	DVD DOOR TRIM	ABS SPRAYING OIL	1	
1	BPK6010C001	POWER KEY	ABS SPRAYING OIL	1	
NO	PART NO.	PART NAME	DESCRPTION	QTY	REMARK

DO NOT SCALE

USE ON	
MODEL NO.	CUSTOMER
DR3.2	HITACHI

單位 UNIT MM

比例 SCALE

日期 DATE 2001.02.07

REVISION NO.

ACAD FILE NAME

材質 MATERIAL

處理 FINISH

設計 DESIGNED

審核 CHECKED

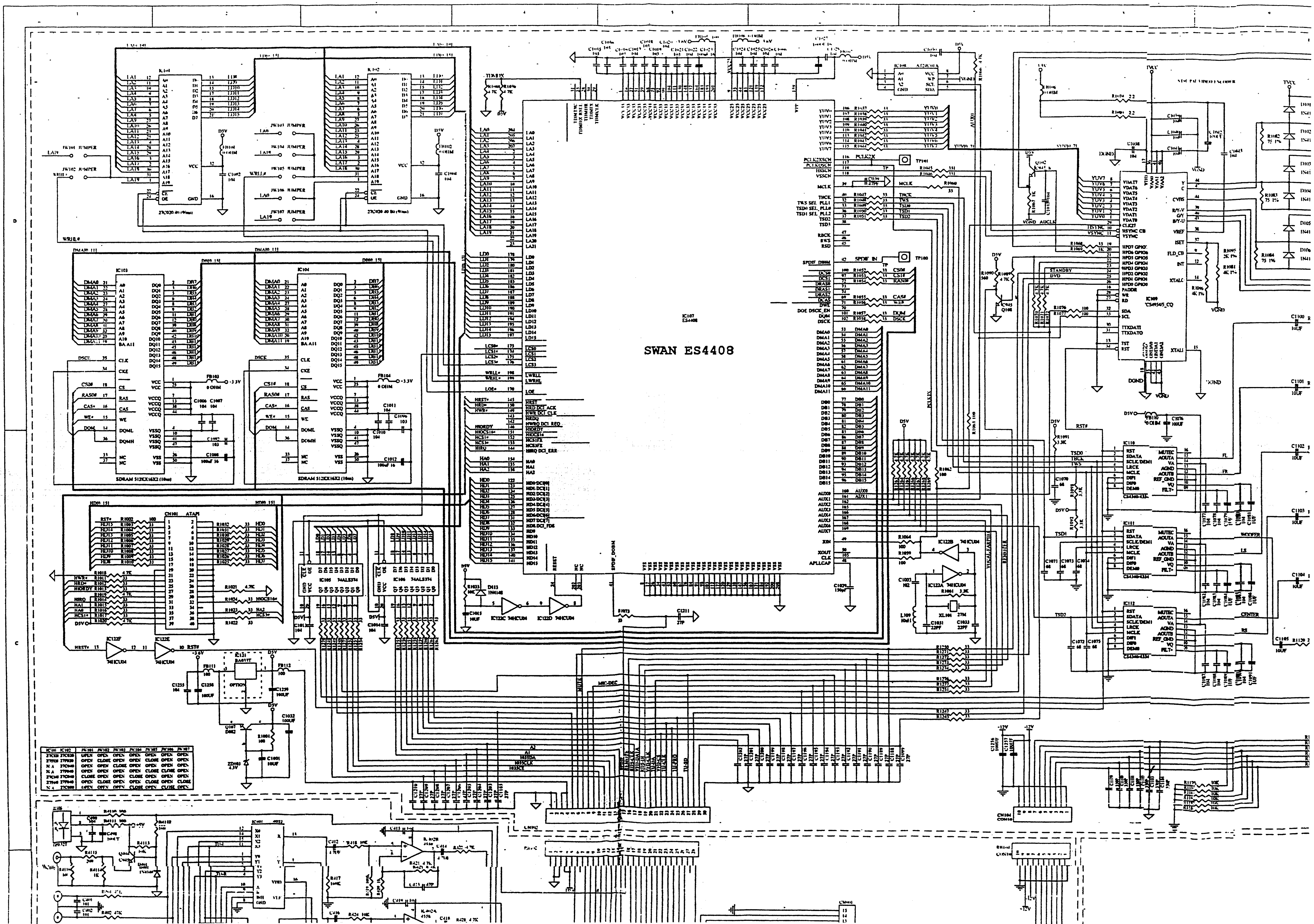
APPROVED

料號 PART NO.

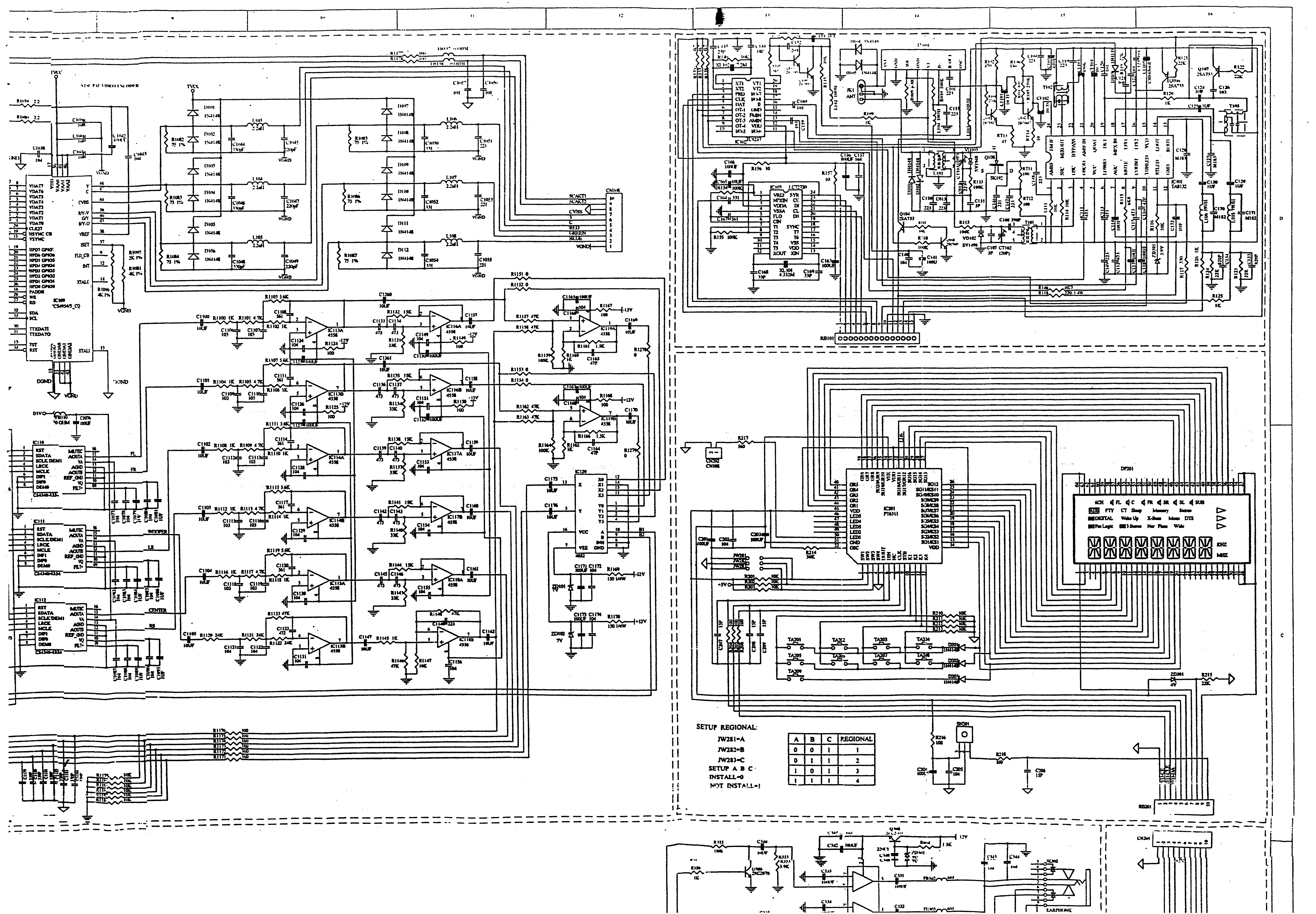
品名 PART NAME

EXPLODE VIEW

[illegible] ELECTRONICS INC.


SWAN ES4408
IC107
ES4408
IC101
IC102
27C020 40 (90ns)
IC103
IC104
SDRAM 512KX16X2 (10ns)
CN101 ATAPI
IC105 74ALS374
IC106 74ALS374
IC108 AT24C01A
IC109
CS4954/5_CQ
NTSC PAL VIDEO ENCODER
IC110
IC111
IC112
CS4340-4334
IC121 BA033T
IC122A 74HCU04
IC122B 74HCU04
IC122C 74HCU04
IC122D 74HCU04
IC122E
IC122F
74HCU04
XL101 27M
JW101 JUMPER
JW102 JUMPER
JW103 JUMPER
JW104 JUMPER
JW105 JUMPER
JW106 JUMPER
JW107 JUMPER
WRLL#
WRHL#
LA19
LA0
D5V
-3.3V
TP101
TP100
PCLK2X
SPDIF_IN
SPDIF_DOBM
MCLK
CAS#
WE#
DQM
DSCK
CS0#
CS1#
RAS0#
RST#
HRST#
FL
FR
WOOFER
LS
CENTER
RS
MUTE
MIC-DEC
VOCAL EAR(HI)
RESETTER
AUX0
TVCC
Q101
Q102
Q107
Q108
ZD101 4.3V
D113 1N4148
CN104
CN102
IC401 4052
-12V
+5V

IC101	IC102	JW101	JW102	JW103	JW104	JW105	JW106	JW107
27C020	27C020	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
27F020	27F020	OPEN	CLOSE	OPEN	OPEN	CLOSE	OPEN	OPEN
N A	27C040	OPEN	OPEN	CLOSE	OPEN	OPEN	OPEN	OPEN
N A	27F040	OPEN	OPEN	OPEN	OPEN	CLOSE	CLOSE	OPEN
27C040	27C040	CLOSE	OPEN	OPEN	CLOSE	OPEN	OPEN	OPEN
27F040	27F040	OPEN	CLOSE	OPEN	OPEN	CLOSE	OPEN	CLOSE
N A	27C080	OPEN	OPEN	OPEN	CLOSE	OPEN	CLOSE	OPEN


NTSC PAL VIDEO ENCODER
IC109
CS4954/5_CQ
IC110
CS4340-4334
IC111
CS4340-4334
IC112
CS4340-4334
IC120
4052
IC201
PT6311
DP201
CN108
SCART1
SCART2
CVBS
Y
C
RED
GREEN
BLUE
VGND
FL
FR
WOOFER
LS
CENTER
RS
RB101
RB201
SN201
EARPHONE
6CH
FL
C
FR
SR
SL
SUB
RDS
PTY
CT
Sleep
Memory
Stereo
DIGITAL
Wake Up
X-Bass
Mono
DTS
Pro Logic
3 Stereo
Nor
Plain
Wide
KHZ
MHZ

SETUP REGIONAL:

JW281=A

JW282=B

JW283=C

SETUP A B C

INSTALL=0

NOT INSTALL=1

A	B	C	REGIONAL
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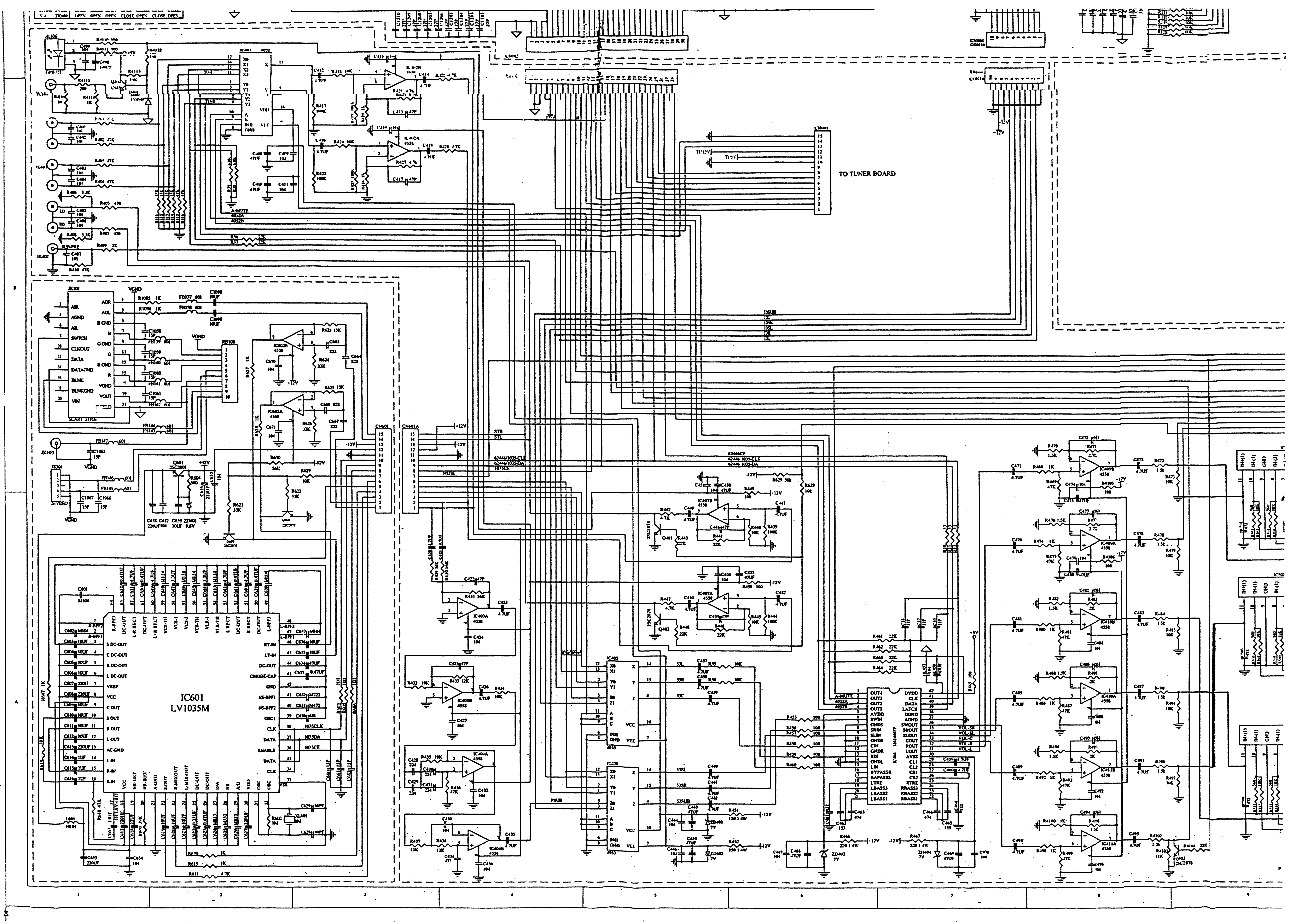
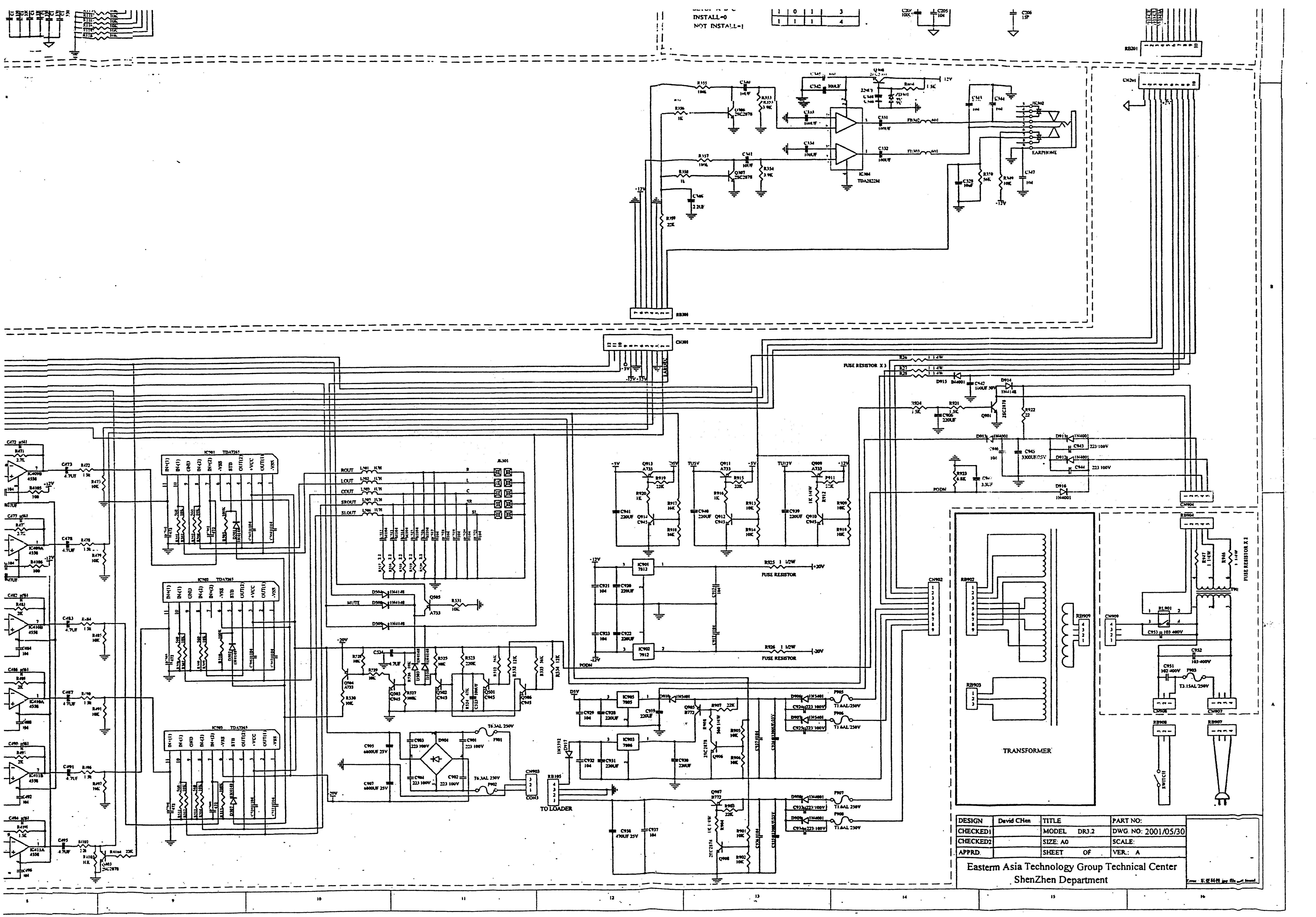
1	0	1	3
1	1	1	4


TO TUNER BOARD
CN901
JK101
SCART 21PIN
AIR
AGND
AIL
SWITCH
CLKOUT
DATA
DATAGND
BLNK
BLNKGND
VIN
AOR
AOL
B GND
B
G GND
G
R GND
R
VGND
VOUT
SHIELD
RB108
IC602B 4558
IC602A 4558
CN601
CN601A
JK103
JK104
S-VIDEO
Q601 2SC2001
ZD601 9.6V
IC601
LV1035M
IC401 4052
IC402A 4558
IC402B 4558
A-MUTE
4052A
4052B
JK106
JK401
JK402
SUB-PRE
STR
STL
MUTE
62446/1035-CLK
62446/1035-DA
1035CE
62446CE
DSUB
DC
DSR
DSL
DR
DL
PSUB
IC403A 4558
IC403B 4558
IC404A 4558
IC404B 4558
IC405 4053
IC406 4053
IC407A 4558
IC407B 4558
IC408
IC409A 4558
IC409B 4558
IC410A 4558
IC410B 4558
IC411A 4558
IC411B 4558
VOL-SR
VOL-SL
VOL-C
VOL-R
VOL-L
1
2
3
4
5
6
7
8
9
A
B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NOT INSTALL=1
RB201
CN201
IC304
TDA2822M
EARPHONE
RB301
CN301
FUSE RESISTOR X 3
IC501 TDA7265
IC502 TDA7265
IC503 TDA7265
ROUT
LOUT
COUT
SROUT
SLOUT
JK501
MUTE
IC409B 4558
IC409A 4558
IC410B 4558
IC410A 4558
IC411B 4558
IC411A 4558
IC901 7812
IC902 7912
IC905 7805
IC903 7806
FUSE RESISTOR
+20V
-20V
PODN
CN902
CN903
CON3
TO LOADER
RB105
CN904
RB902
RB903
RB909
TRANSFORMER
RB904
FUSE RESISTOR X 2
CN909
RL901
CN908
CN907
RB908
RB907
SWITCH
T6.3AL 250V
T1.6AL 250V
T3.15AL 250V

DESIGN	David CHen	TITLE	PART NO:
CHECKED1		MODEL DR3.2	DWG. NO: 2001/05/30
CHECKED2		SIZE: A0	SCALE:
APPRD.		SHEET OF	VER.: A

Easterm Asia Technology Group Technical Center
ShenZhen Department

Error : 东亚科技 jpg file not found.